

CENTRIFUGE WITH CONTROLLED DISCHARGE OF DENSE MATERIAL

ABSTRACT OF THE DISCLOSURE

A centrifuge with controlled discharge of dense materials disclosed. A centrifuge includes a fluid separation wall placed within a sleeve to form a  
5 containment zone therebetween. The fluid separation wall aligns and rotates parallel to an axis of rotation. A receptacle forming a part of the fluid separation wall includes a void area. An opening extending through the  
10 fluid separation wall from the void area to the outer surface of the receptacle transports the more dense material to the containment zone. A valve ring forming a part of the fluid separation wall includes a valve  
orifice. The valve ring aligned perpendicular to the axis of rotation and slides along the fluid separation  
15 wall to move between open and closed positions. The valve orifice aligns with the opening such that the more dense material exits the fluid separation wall and moves into the containment zone.